BEFORE THE

## ORIGINAL

Dr.

## Federal Communications Commission

WASHINGTON, D.C.

In the Matter of	DOCKET FILE	COPTOTION	DEC 1 7 1999
	)		CLEAR PLANT
Amendment of Section 73.622(b)	)		OFFICE OF THE SECRETARY
Table of Allotments	)	MM Docket No. 9	9
Digital Television Broadcast Station	ns )	RM	
(Hazleton, Pennsylvania)	)		

To: Chief, Video Services Division

#### **PETITION FOR RULE MAKING**

WOLF License Corp. ("Wolf"), licensee of Station WOLF-TV, Hazleton, Pennsylvania, by its undersigned attorneys, hereby requests that the Commission initiate a rule making proceeding to substitute and allot DTV Channel 45 for its assigned DTV Channel 9 at Hazleton, Pennsylvania at reference coordinates 41-11-00 N. and 75-52-10 W.

As set forth in the attached engineering proposal, operation on DTV Channel 45 appears possible with an effective radiated power ("ERP") of up to 546 kW, utilizing a nondirectional antenna and an antenna height above average terrain (HAAT) of 488 meters. Thus, Wolf requests the following change in the DTV Table of Allotments:

	Current	Proposed
Hazleton, Pennsylvania	9	45

#### Discussion

Wolf's proposed substitution of DTV Channel 9 for DTV Channel 45 would permit Station WOLF-TV to maximize its service area during the DTV transition period. Also, while Wolf's current channel allotment of DTV Channel 9 will likely result in the displacement of

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LPTV Station W09BL, licensed on co-channel 9 at Williamsport, Pennsylvania, its proposed allotment of DTV Channel 45 will not result in the displacement of any existing or authorized TV translator or LPTV station. Thus, this proposal is in the public interest.

The proposed channel change is in compliance with the principle community coverage requirements of Section 73.625(a) and is acceptable under the 2 percent criterion for *de minimis* impact applicable to DTV allotment modifications under Section 73.623(c)(2).

If the proposal set forth herein is adopted, Wolf will file the appropriate application for the facility requested herein and, if authorized, will construct and place the station into operation.

#### Conclusion

For the foregoing reasons, Wolf respectfully requests that the Commission initiate the rule making requested herein and that it substitute DTV Channel 45 for DTV Channel 9 at Hazleton, Pennsylvania with an ERP of up to 546 kW and an HAAT of 488 meters.

Respectfully submitted,

WOLF LICENSE CORP.

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Dated: December 17, 1999

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### EXHIBIT A

#### Technical Summary

This technical narrative and associated exhibits have been prepared on behalf of WOLF-TV, Hazleton, Pennsylvania, in support of a Petition for Rule Making to modify the DTV allotment of WOLF-TV from VHF channel 9 to UHF channel 45.

DTV channel 45 can be substituted and allotted to Hazleton, Pennsylvania in compliance with the principle community coverage requirements of Section 73.625(a) at reference coordinates Latitude 41°11′00″, Longitude 75°52′10.¹ In addition, operation on DTV channel 45 appears possible with an effective radiated power (ERP) of up to 546 kW utilizing a nondirectional antenna and an antenna height above average terrain (HAAT) of 488 meters.² The proposed channel change is acceptable under the 2 percent criterion for de minimis impact applicable to DTV allotment modifications under Section 73.623(c)(2). Therefore, it is proposed to modify WOLF-TV's authorization to specify operation on the alternate DTV channel with the following specifications:

State & City	DTV Channel	DTV ERP (kW)	Antenna HAAT (m)
PA, Hazleton	45	546	488

<sup>&</sup>lt;sup>1</sup> This is the current site of WOLF-TV's NTSC operation on channel 56 as well as the site proposed in WOLF-TV's pending DTV application to implement operation on channel 9 (BPCDT-980825KI).

Consulting Engineers

Page 2 Hazleton, Pennsylvania

It is also proposed to amend the DTV Table of Allotments, Section 73.622(b) of the Commission's Rules, as follows:

#### Channel No.

City Present Proposed Hazleton, Pennsylvania 9 45

Station WOLF-TV is currently allotted VHF channel 9 for its DTV operation with an ERP of 3.2 kW and an HAAT of 329 meters. In addition, WOLF-TV has pending an application to implement the channel 9 DTV allotment which specifies a nondirectional antenna maximum ERP of 6.3 kW and an HAAT of 488 meters (BPCDT-980825KI).

Station WOLF-TV proposes to allot UHF channel 45 at Latitude 41°11°00″, Longitude 75°52′10″. It is proposed to operate with an antenna radiation center height above mean sea level (RCAMSL) of 873 meters, an antenna radiation center height above average terrain of (HAAT) of 488 meters and a nondirectional antenna maximum ERP of 546 kW.

Figure 1 is a DTV channel 45 separation study toward other NTSC and DTV allotments based on a 161 kilometer "buffer". Although the separation requirements are only applicable to new DTV allotments, they can be used as an indication of which stations have the potential of receiving interference from the proposed channel 45 DTV operation.

Figure 2 provides a summary of interference and service for the proposed channel 45 allotment. Determination of interference and service was based on the procedures outlined in OET Bulletin No. 69 and criteria contained in

<sup>&</sup>lt;sup>2</sup> Equivalent maximum facilities pursuant to 73.622(8)(i).

Consulting Engineers

Page 3 Hazleton, Pennsylvania

Sections 73.622 and 73.623 of the FCC's rules.<sup>3</sup> It is believed that the proposed channel 45 operation is in full compliance with the FCC's 2%/10% interference criteria.

Figure 3 is a map which depicts the 41 dBu, noise limited, contour for the proposed channel 45 DTV operation. Also shown are the city limits of Hazleton based on 1990 Census data. As indicated, all of Hazleton is located within the 41 dBu contour. Therefore, the proposed channel 45 DTV allotment will comply with the city coverage requirements contained in Section 73.625(a). Also shown on Figure 3 is the 64 dBu contour for WOLF-TV's currently authorized NTSC channel 56 operation (BMPCT-971222KE). As indicated, the proposed channel 45 operation will provide full replication of coverage.

Studies indicate that the proposed channel 45 operation will not result in the displacement of any existing or authorized TV translator or LPTV stations. However, it appears that the current channel 9 DTV allotment will likely result in the displacement of LPTV station W09BL which is currently licensed to operate on co-channel 9 at Williamsport, Pennsylvania (BLTVL-870804IA; Licensee: Penn Central Broadcasting, Inc.) from a site located 93.4 kilometers from the proposed WOLF-TV DTV channel 9 allotment site. As a result, it is believed that adoption of the channel 45 allotment proposal will have less adverse impact to existing or authorized TV Translator and LPTV stations.

The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed. An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

Consulting Engineers

Page 4 Hazleton, Pennsylvania

As the community of Hazleton, Pennsylvania is located within 400 kilometers of the U.S.-Canadian border, concurrence by the Canadian government will likely be required for this proposal. Figure 4 is a tabulation of all Canadian NTSC and DTV allotments on channels 44, 45 and 46 located within 400 km of the proposed site. All the Canadian NTSC and DTV allotments are located at distances greater than the minimum distance set forth in Section D.3 (Proposed Canadian Tables) of the Canadian publication entitled "Digital Television, Service Considerations and Allotment Principles" prepared by the JTCAB Ad Hoc Group on DTV Planning Parameters (January 1997).

#### Conclusion

UHF channel 45 can be substituted for the current VHF DTV channel 9 allotment of WOLF-TV in compliance with the FCC's rules concerning DTV allotment changes.

W. Jeffrey Reynolds

du Treil, Lundin & Rackley, Inc. 201 Fletcher Avenue Sarasota, Florida 34237 (941) 3290-6000

September 23, 1999

#### DTV to NTSC Separation Study

Job Tit Zone : Channel	le :Propo 1 45 (656-	sed DTV Ch 662 MHz)	. 45			Coordi	Sepa FCC T nates	ration B V DB Dat : 41-11-	uffer 161 km e : 09/17/99 00 75-52-10
Status	St FCC		Zone	HAAT (	m)	Longitud	e True	(km)	Req. (km)
NEW	CORNING		*30(0)	813		42-01-55	321.4	121.23	24.1/80.5 CLEAR
ALLOC.	CORNING NY	-	*30(o) I	0		42-08-36 77-03-25	317.7	145.44 64.94	24.1/80.5 CLEAR
NEW APP	CORNING NY BPE	r-960401KF	*30(o) I	12 166	DA	42-09-43 77-02-15	318.7	145.87 65.37	24.1/80.5 CLEAR
LIC	NY BLC		I	475		74-00-49			24.1/80.5 CLEAR
APP	NY BPC'	Г-961205КF 08-19-98;	I	475		74-00-49		84.31	24.1/80.5 CLEAR
									24.1/80.5 SHORT
WXTV LIC	PATERSON NJ BLC	Г-920218KE	41(-) I	2340 421	DA	40-44-54 73-59-10	106.4	165.75 85.25	24.1/80.5 CLEAR
CP		r-980319KE							24.1/80.5 CLEAR
		PHIA - MOBILE DOCE				39-56-58 75-09-21	156.0	149.76	0.0 LMRS
ALLOC.	ONEONTA NY	-	*42(o) I						24.1/80.5 CLEAR
CP	NJ BPED	r-990528KE P AS SHOWN	I	261		74-41-11	134.7	141.39 60.89	24.1/80.5 CLEAR
									24.1/80.5 CLEAR
									24.1/80.5 CLEAR
									24.1/80.5 CLEAR

Status	City C	Zone	HAAT(m)	Longitude True	(km)	(km)
WNYSTV	SYRACUSE NY BLCT-891026KF	43 (+)	17.8	43-03-33 354.1	209.53	24.1/80.5
WSAH LIC	BRIDGEPORT CT BLCT-871009KE					
WVIATV LIC	SCRANTON PA BLET-830929KG					
WBFF LIC	BALTIMORE MD BLCT-890526KF	45(o) I	1290 386	39-20-10 198.1 76-38-59	215.59 -1.71	217.3 SHORT
LIC	SCHENECTADY NY BLCT-850114KJ ATED TO ALBANY-SCHE	I	338		222.47 5.17	
ALLOC.	ALBANY-SCHENECTADY NY - ATION USED SCHENECT	I	0	42-39-01 46.4 73-45-01		
	BROCKVILLE ON -			44-36-00 2.2 75-41-00		
ALLOC.	PRESCOTT ON -			44-49-55 3.9 75-31-17		
WSKGTV LIC	BINGHAMTON NY BLET-830315KJ			42-03-22 356.4 75-56-39		
WNJU LIC	LINDEN NJ BLCT-800423KE					
	ALTOONA PA BLCT-850925KE			40-34-12 253.3 78-26-26		
WGTW APP	BURLINGTON NJ BPCT-950706KF					24.1/80.5 CLEAR
WGTW CP	BURLINGTON NJ BPCT-840104KL					
WYDC LIC	CORNING NY BLCT-940920KE	48(+) I	12 DA 166	42-09-43 318.7 77-02-15	145.87 65.37	24.1/80.5 CLEAR
	KINGSTON NY - AL RULEMAKING, FROM	I	381	73-56-52		
WNEP-DT	SCRANTON PA BPCDT-990729KF	49	100	41-11-00 0.0		
WGCBTV LIC	RED LION PA BLCT-790419KG	49(+) I	617 177	39-54-18 203.2 76-35-00	154.31 73.81	24.1/80.5 CLEAR
	BRIDGEPORT CT BLET-870908KE					

Status	City Ch St FCC File No. Z	one	HAAT (m)	Longitude True	(km)	(km)
NEW APP	ITHACA NY BPCT-941107KG	52(o) I	123. 206	42-20-35 351.0 76-07-05	130.47 49.97	24.1/80.5 CLEAR
WNJT LIC	TRENTON * NJ BLET-850913KE	52(-) I	1950 271	40-17-00 134.8 74-41-20	141.20 60.70	24.1/80.5 CLEAR
	ITHACA NY BPCT-950320KM					
NEW APP	ITHACA NY BPCT-950320KH	52(o) I	100 145	42-21-49 335.3 76-36-20	144.68 64.18	24.1/80.5 CLEAR
ALLOC.	ITHACA NY -	52(o) I	0	42-26-30 339.7 76-30-06	1 <b>49.</b> 32 68.82	24.1/80.5 CLEAR
WILF LIC	WILLIAMSPORT PA BLCT-930119KF					
WILF CP	WILLIAMSPORT ! PA BPCT-960214KF	53(-) I	1320 DA 244	41-11-57 271.4 77-07-38	105.54 25.04	24.1/80.5 CLEAR
LIC	ATLANTIC CITY 5	I	85	74-27-03	153.21	CLEAR
	STATE COLLEGE *5					
APP	VINELAND 5 NJ BPCT-960920YV STS A WAIVER OF FREE2	I	242	74-50-39	103.02	24.1/80.5 CLEAR
ALLOC.	VINELAND 5	59(-) I	0	39-29-12 159.0 75-01-36	201.56 121.06	24.1/80.5 CLEAR
NEW APP	VINELAND 5 NJ BPCT-960920LO ETS A WAIVER OF FREEZ	59(-) I	1510		208.48	24.1/80.5
		59(o) I		43-06-12 13.7 75-13-33		
NEW APP	UTICA *5	59(o) I	10 250			24.1/80.5 CLEAR
	BETHLEHEM 6 PA BLCT-960129KF					
	BETHLEHEM 6 PA BPCT-960131KF					
WBPHTV APP	BETHLEHEM 6 PA BMPCT-980812KG	50(-) I	2950 DA 284	40-33-54 152.2 75-26-26		24.1/80.5 SHORT

\*\* End of TV Separation Study for Channel 45 \*\*

#### DTV to DTV Separation Study

 Job Title :Proposed DTV Ch. 45
 Separation Buffer 161 km

 Zone : 1
 FCC DTV DB Date: 12/18/98

 Channel 45 (656-662 MHz)
 Coordinates : 41-11-00 75-52-10

	City St FCC File No				
DWNYW DTVALT			40-42-43 74-00-49		24.0/110.0 CLEAR
DWNYSTV DTVALT	SYRACUSE NY		42-52-50 76-11-59	 	24.0/110.0 CLEAR
DWWPB DTVALT			39-39-04 77-58-15		24.0/110.0 CLEAR
DWABCTV DTVALT	NEW YORK NY		40-42-43 74-00-49		
DWROCTV DTVALT	ROCHESTER NY	1000 152	43-08-07 77-35-02		
DWEDN DTVALT	NORWICH CT		41-31-11 72-10-04		
DWFMZTV DTVALT	ALLENTOWN PA		40-33-54 75-26-26		24.0/110.0 SHORT
DWBFF DTVALT	BALTIMORE MD		39-20-10 76-38-59		24.0/110.0 CLEAR
DWKBSTV DTVALT			40-34-12 78-26-26		24.0/110.0 CLEAR

<sup>\*\*</sup> End of DTV Separation Study for Channel 45 \*\*

#### Interference and Service Summary

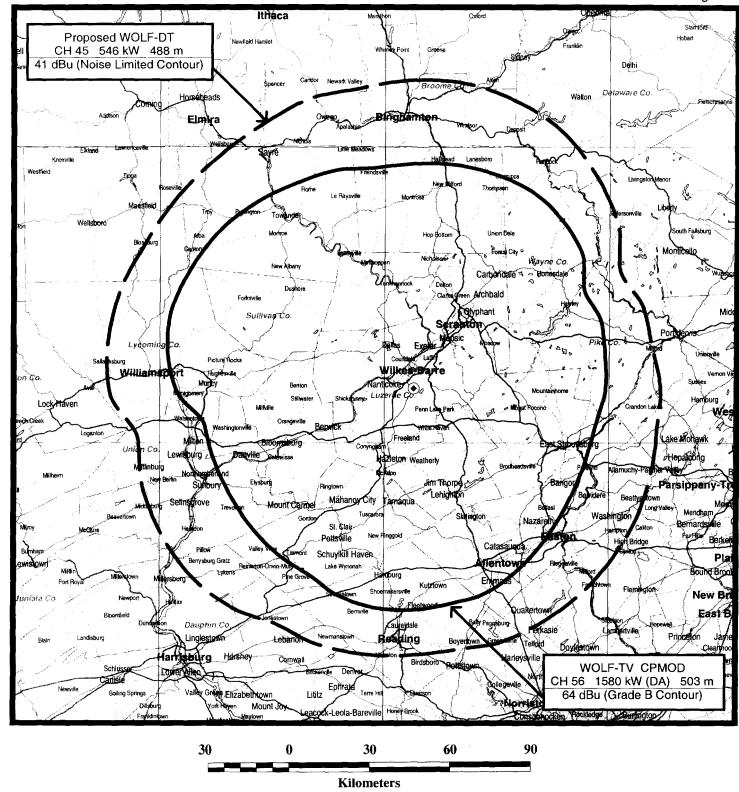
#### I. Interference Caused

		Proposed	Unique
Protected	FCC Service	Interference	Interference
NTSC/DTV Station	Population	Population	Population*
WSWB, NTSC Ch. 38			
Scranton, PA	1,141,754	17,696 (1.6%)	
WVIA-TV, NTSC Ch. 44			
Scranton, PA	1,682,329	2,201 (0.1%)	
DWABC-TV, DTV Ch. 45			
New York, NY			
164.3 kW/491 m	17,845,000	142,733 (0.8%)	
200 kW/491 m	18,110,282	137,785 (0.8%)	
DWABC-TV, DTV Ch. 45 (CP)			
New York, NY			
182 kW/397 m	17,624,088	120,870 (0.7%)	
200 kW/397 m	17,670,225	115,680 (0.7%)	
WBFF, NTSC Ch. 45			
Baltimore, MD	5,986,630	113,522 (1.9%)	
WMHQ, NTSC Ch. 45			
Schenectady, NY	1,255,481	1,284 (0.1%)	
DWROC-TV, DTV Ch. 45			
Rochester, NY			
1000 kW/152 m	1,182,000	787 (0.1%)	
DWFMZ-TV, DTV Ch. 46 (Allotment)			
Allentown, PA			
50 kW/313 m	2,084,000	36,383 (1.8%)	
200 kW/313 m	5,883,093	46,651 (0.8%)	
DWFMZ-TV, DTV Ch. 46 (CP)			
Allentown, PA			
50 kW/293 m	3,267,938	45,350 (1.4%)	
200 kW/293 m	5,412,236	50,381 (1.0%)	
DWFMZ-TV, DTV Ch. 46 (Application)			
Allentown, PA			
200 kW/293 m	5,757,662	42,307 (0.7%)	
WSKG-TV, NTSC Ch. 46			
Binghamton, NY	664,198	3,789 (0.6%)	
DWEDN, DIV Ch. 45			
Norwich, CT			
50 kW/207 m	839,000	0 (0.0%)	
200 kW/207 m	2,813,533	2,331 (0.0%)	

<sup>\*</sup>Considers interference "masking" from other NTSC and DTV assignments.

#### II. Service

	Population
Within Noise Limited Contour	2,766,744
Not Affected by Terrain Losses	2,177,988
Lost to NTSC Interference	57,947
Lost to DTV Interference	303,882
Total Service	1,816,159



### PREDICTED 41 dBu NOISE-LIMITED COVERAGE CONTOUR

STATION WOLF-DT HAZLETON, PENNSYLVANIA CH 45 546 KW 488 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

#### CANADIAN NTSC/DTV WITHIN STUDY

Job Title :Proposed DTV Ch. 45

Sorted by Channel

Channels 44 to 45

TV/DTV Within 400.0 km

FCC TV DB Date : 09/17/99

Coordinates : 41-11-00 75-52-10

Call Status	City State FCC File No.	Channel Zone		Latitude Longitude	_	Distance (km) (mile)
CBLFT12	PETERBOROUGH ON -	44(o) I	111 DA 268	44-07-11 78-08-12	331.17	375.45 233.34
CBLFT-1 NTSCC	PETERBOROUGH ON	44		44- 7-10 78- 8-12	331.17	375.45 233.34
ALLOC.	BROCKVILLE ON -	45(+) I	0	44-36-00 75-41-00	2.22	379.86 236.08

<sup>\*\*</sup> End of TV Within Study \*\*

### **CERTIFICATE OF SERVICE**

I, Karleen Lamie, a secretary in the law firm of Fisher Wayland Cooper Leader & Zaragoza L.L.P., hereby certify that on this 17th day of December, 1999, I caused to be served by hand delivery a copy of the foregoing "Petition for Rule Making," on the following:

John A. Karousos, Chief Allocations Branch Policy and Rules Division Mass Media Bureau Federal Communications Commission 445 12th Street, S.W. 3-A320 Washington, DC 20554

Karleen Lamie